

Component			Source
Service	Function	Sub-Function Requirement	
Toll Authority Center(s)			
AM			
MUSA			
AUA			
4.2.1.005.c	A list of authorized users shall be created, stored, updated and deleted for roadway toll usage (pre-payment or billing).		Derived
4.2.1.011	A user profile shall contain user account information.		Derived
4.2.1.014	User profile data shall be accepted into the system manually.		Derived
4.2.1.015	User profile data shall be accepted into the system electronically (standard format).		Derived
4.2.1.016	User profile data shall be accepted into the system electronically (Non-standard format).		Derived
4.2.1.016.a	All user profile data shall be checked for validity.		Derived
4.2.1.018	A master user profile shall be created, stored, updated and deleted for each registered user.		Derived
4.2.1.020	A user profile shall be able to be created, stored, updated, and deleted.		Derived
4.2.1.021	User account information shall include account number (assigned by the system).		Derived
4.2.1.021.a	User account information shall include a Personal Identification Number (PIN).		Derived
4.2.1.022	User account information shall include user/company name.		Derived
4.2.1.023	User account information shall include mailing address.		Derived
4.2.1.024	User account information shall include phone number.		Derived
4.2.1.024.a	User account information shall include a fax number.		Derived
4.2.1.024.b	User account information shall include a computer address.		Derived
4.2.1.025	User account information shall include user list (for multiple user accounts, like a company account).		Derived

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	4.2.1.026	User account information shall include credit card name(s), number(s), expiration date(s).	Derived
	4.2.1.027	User account information shall include financial institution name(s), account number(s).	Derived
	4.2.1.027.	User account information shall include financial institution mailing address.	Derived
	4.2.1.027.b	User account information shall include a financial institution computer address.	Derived
	4.2.1.027.c	User account information shall include user account balance.	Derived
	4.2.1.027.d	Users shall be allowed to query user account information.	Derived
	4.2.1.027.e	User account information shall be validated with a financial institution via an account validation request.	Derived
	4.2.1.027.f	An account validation shall be received from a financial institution via an account validation notice.	Derived
	4.2.1.060.g	A profile confirmation shall be sent to each user registered for a service to confirm their registration.	Derived
	4.2.1.060.b	A profile confirmation shall be sent to each user registered for a service to verify the correctness of the information contained in their user profile.	Derived
MSU			
	4.2.2.008	Service usage data shall be collected for toll roads.	Derived
	4.2.2.024	Service usage data collected for the toll facilities shall include date and time of each vehicle entering the roadway.	Derived
	4.2.2.025	Service usage data collected for the toll facilities shall include tolls collected by category (if applicable).	Derived
	4.2.2.026	Service usage statistics shall be compiled based on analysis of service usage data over time.	Derived
	4.2.2.027	Service usage statistics shall be compiled for usage by individual account.	Derived
	4.2.2.028	Service usage statistics shall be compiled for usage levels for each service.	Derived

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		4.2.2.029	Service usage statistics shall be compiled for usage for each pricing structure within a service.	Derived
		4.2.2.030	Service usage statistics shall be created, stored, updated and deleted.	Derived
		SBP		
		4.2.3.008	Service invoices shall integrate charges for many transportation modes and services including Toll roads.	USR 3.1.4,3.1.4.1,3.1.4
		4.2.3.009	A service invoice shall be compiled for each user account based on the service usage data and service pricing structures.	Derived
		4.2.3.010	Third party billing (for companies or other groups of users under a single account) shall be supported.	USR 2.3.3.3,3.1.1.5,3.1
		4.2.3.011	Periodic billing (eg. monthly, quarterly, etc) shall be supported.	Sbus 56-5
		4.2.3.019	Service payments shall include payment for toll road usage.	SR 3.1.4.4, GGO 13.5.2,
		4.2.3.021	Service payments shall be accepted via credit card transactions.	USR 2.4.3.1,3.1.0, 3.1.1
		4.2.3.023.a	Service payments shall be accepted via electronic funds transfers from financial institutions.	Derived
		4.2.3.024	Tolls shall be collected without requiring vehicle operators to stop.	USR 3.1.1.1,3.1.1.6
		4.2.3.025	A single payment media shall be supported for all transportation services.	USR 3.1.2.1
		4.2.3.026	A single payment media shall be supported for transportation services and other uses, such as retail purchases, utility bills, etc.	USR 3.1.2.6
		4.2.3.027	A payment confirmation shall be sent to each user.	USR 3.1.1.3
		4.2.3.029	Service payments that are insufficient or past due shall be detected.	Derived
		4.2.3.030	A delinquent account notice shall be sent to users with overdue or insuffkient payments.	Derived
		PSPS		
		MPR		
		4.1.1.001	Pricing requirements shall be collected from public agencies.	Derived

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		4.1.1.002	Pricing requirements shall be collected from travelers.	Derived
		4.1.1.003	Pricing requirements shall be collected from private companies.	Derived
		4.1.1.003.a	Pricing requirements shall be collected, stored, and updated to support pricing strategy and pricing structure planning activities.	Derived
		4.1.1.004	Service usage statistics shall be assessed to determine additional requirements.	Derived
MPS				
		4.1.2.004	Pricing strategies shall support incentive programs (eg. favor certain transportation modes, routes or user groups).	USR 3.1.4.3,3.1.5.2,3.1
		4.1.2.005	Pricing strategies shall be created, stored, updated and deleted.	Derived
MSPS				
		4.1.3.008	Service pricing structure(s) shall be established for roadway tolls.	USR 3.1.5,3.1.5.3,3.1.5
		4.1.3.008.a	Service pricing structure(s) that implement pricing requirements and pricing strategies shall include yearly price options.	Derived
		4.1.3.009	Service pricing structures, that implement pricing requirements and pricing strategies, shall include quarterly price options.	Derived
		4.1.3.010	Service pricing structures, that implement pricing requirements and pricing strategies, shall include monthly price options.	Derived
		4.1.3.011	Service pricing structures, that implement pricing requirements and pricing strategies, shall include per use price options.	Derived
		4.1.3.013	Service pricing structures, that implement pricing requirements and pricing strategies, shall include discounts.	Derived
		4.1.3.017	Service pricing structures, that implement pricing requirements and pricing strategies, shall include variable prices (for Public Transit and roadways).	USR 3.1.2.2,3.1.5.1.1
		4.1.3.018	Service pricing structures, that implement pricing requirements and pricing strategies, shall include fees based on vehicle classification (for parking) and roadway tolls.	USR 3.1.3.3

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TPD	MTPD	4.1.3.019 Service pricing structures shall be created, stored, updated and deleted.	Derived
	CD	2.1.3.016 Directions information shall include travel cost.	Derived
		2.1.3.037 Travel cost shall include tolls.	MnE 3.7.2,4.3.3
	DR	2.1.2.011 Route information shall include route travel cost (tolls, fares, parking).	MnE 3.7.2,4.3.3, USR 1